



Borough of Colne.



Annual Report

FOR THE

Year ending December 31st, 1911,

BY THE

Medical Officer of Health,

W. DOYLE, M.B., C.M.

Colne:

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COLNE.

THE MEDICAL OFFICER OF HEALTH'S ANNUAL REPORT

FOR THE YEAR ENDING DECEMBER 31ST, 1911.

To the Chairman and Members of the Health Committee,

GENTLEMEN,

I have the honour to present to you my Annual Report for the year ending December 31st, 1911.

The area of the Borough is 5,063 acres, made up of an urban part, and a surrounding agricultural district; the altitude varying from 400 to 1,300 feet.

There is good natural drainage to the Colne Water and its tributaries. The portions of the Borough to the north and east of the river are on the millstone grit, the south-western portion on the coal measures. Boulder clay is irregularly but quite commonly distributed over the district; the North Valley district is largely sandy shale; glacial sands and gravel also occur in considerable quantity.

The inhabitants are engaged principally in the textile and allied trades. Employment is fairly steady and the social conditions of the population as a whole are as good as most industrial districts. During the early part of the year there was an epidemic of cough at one of the mills in the town. On enquiry it was presumed to be caused by mildew which had developed in the warps. The air of the mill was

found to be charged with the spores of mildew; this caused great irritation to the chests of weavers at all predisposed to throat and chest affections. The extra moisture has been mitigated, and there have been no complaints for some time.

The Borough Collector's Certificate state that there are 6,094 inhabited houses on his books to the 31st December, 1911, and this number is multiplied by the inhabited ratio per house, found at the census in 1911, as follows:—

	Inhabited Houses.	Population.
Primet Bridge Ward	938	... 3955
Vivary Bridge Ward	1132	... 4773
Central Ward	1137	... 4794
Horsfield Ward	1285	... 5417
Carry Bridge Ward	1209	... 5097
Laneshaw Bridge Ward	393	... 1657
<hr/>		
Totals...	<u>6094</u>	<u>25693</u>

BIRTHS.

Total births registered—566. Males 285, Females 281. Of this number 10 males and 12 females were illegitimate.

The birth-rate was 22.02 per 1000 of the 1911 census. The birth-rate last year was 19.20.

The number of births and birth-rate in each ward was—

Ward.	Births.	Rate per 1000.
Primet Bridge.....	100	... 25.28
Vivary Bridge	86	... 18.01
Central	98	... 20.44
Horsfield	127	... 23.44
Carry Bridge	122	... 23.93
Laneshaw Bridge	33	... 19.91

DEATHS.

Total deaths registered—334. Males 151, Females 183. The death-rate equals 12·99 per 1000 of the 1911 census. Last year there were 303 deaths, equalling a death-rate of 11·02 per 1,000.

The deaths and the death-rate for each ward was—

Ward.	Deaths.	Rate per 1000.
Primet Bridge	82	... 20·73
Vivary Bridge	53	... 11·10
Central	51	... 10·63
Horsfield	59	... 10·89
Carry Bridge	67	... 13·15
Laneshaw Bridge	22	... 13·27

The number of residents of the Borough who died in other districts was 67 (males 38, females 29) viz :—Burnley Union Infirmary 43 (males 25, females 18), Burnley Sanatorium 1 male, Burnley Victoria Hospital 6 males 3 females, Burnley Workhouse 1 male, Nelson 1 female, Haworth 1 female, Guisley 1 female, Lancaster County Asylum 3 (1 male and 2 females), Prestwich Lunatic Asylum 2 (1 male and 1 female), Whittingham County Asylum 1 male, Rochdale Union Infirmary 1 female, Tattershall Thorpe 1 male, Southport 1 female, Royal Infirmary, South Manchester 1 male.

There were 4 deaths in the Borough of non-residents, viz :—Trawden 1 female, Foulridge 1 male, Thrisk 1 male, Ashton-under-Lyne 1 male.

If the deaths of the residents who died in other districts are added on, the correct death-rate for the Borough will be 15·45 as against 12·23 last year.

The deaths in the Burnley Infirmary and Workhouse (44) were mainly persons of the tramping and peddling class, etc., who stayed in common lodging-houses or houses-let-in-lodgings in the town for a short time, and on sickness overtaking them were removed by the Relieving Officer to the Union Workhouse, and when death occurred they were returned as inhabitants of Colne.

These, along with the Colne residents in the Union Workhouse, constitute the 44 deaths in the Burnley Union Infirmary and Workhouse.

There were 129 deaths among children under 5 years of age, viz:— 82 in the first year, 32 in the second year, 10 in the third year, 2 in the fourth year, and 3 in the fifth year of life.

The deaths among persons over 5 years of age were 205, and of this number 79 were 65 years of age and over, the two eldest were 90 years of age.

The ages at death were as follows :—

9 deaths among persons over 5 years and under 10 years.

4	"	"	10	"	15	"
10	"	"	15	"	20	"
12	"	"	20	"	30	"
24	"	"	30	"	40	"
18	"	"	40	"	50	"
16	"	"	50	"	55	"
21	"	"	55	"	60	"
11	"	"	60	"	65	"
27	"	"	65	"	70	"
26	"	"	70	"	75	"
16	"	"	75	"	80	"
8	"	"	80	"	85	"
1	"	"	85	"	90	"
2	"	"	90	"	95	"

The average age at death was 34·43.

The number of deaths occurring during the working age, viz:— between 12 and 65 years of age was 113 (55 males and 58 females), which if calculated upon the population equals a rate of 4·39 per 1,000,

SCHOOLS.

The sanitary condition of the schools in the Borough have been satisfactory during the year.

The following scheme has been arranged between the School Medical Officer and myself in regard to our respective duties :—

- (a) That the School Medical Officer be informed of all cases of infectious diseases occurring amongst children of school age, which may have been notified to the Medical Officer of Health.
 - (b) That the sanitation of the schools should be the business of the Medical Officer of Health, and that the School Medical Officer shall report all defects in sanitation which he may observe at the time of his inspections to the Medical Officer of Health.
 - (c) That the Medical Officer of Health through the means at his disposal shall disinfect the schools when he thinks necessary, or when requested to do so by the School Medical Officer.
- :

COTTAGE HOSPITAL.

During the year 189 patients (79 males and 110 females), as against 200 in 1910, were admitted to this institution. Seventeen deaths (8 males, 9 females) occurred, which equals a rate of 89 per 1,000 patients admitted.

The causes of death were—1 heart disease, 3 inquest cases, 1 diphtheria, 2 broncho-pneumonia, 1 cirrhosis of the liver, 2 appendicitis, 1 diarrhoea, 1 diabetes, 1 pelvic peritonitis, 1 hernia, 1 heart disease, and 2 other causes.

Fifteen deaths were of residents of the Borough, the others resided 1 Foulridge and 1 Trawden.

PHTHISIS.

The deaths from phthisis (consumption) number 9, with a rate of .35. Last year there were 12 deaths.

The deaths were distributed throughout the town as follows :—

Primet Bridge Ward	...	...	...	3
Vivary Bridge Ward	...	...	...	0
Central Ward	...	...	...	1
Horsfield Ward	...	...	...	2
Carry Bridge Ward	...	...	...	2
Laneshaw Bridge Ward	...	...	...	1

RESPIRATORY DISEASES.

The deaths from the respiratory diseases, bronchitis, pneumonia and pleurisy were 47, with a rate of 1.82. Last year 65, equalling a rate of 2.31.

The deaths were distributed in the following manner :—

Primet Bridge Ward	...	...	...	11
Vivary Bridge Ward	...	...	...	11
Central Ward	...	...	...	7
Horsfield Ward	...	...	...	8
Carry Bridge Ward	...	...	...	7
Laneshaw Bridge Ward	...	...	...	5

INQUEST CASES.

During the year there were 15 deaths (8 males, 7 female) necessitating a Coroner's Inquest, 1 being an infant, and the remainder over 12 months. Compared with last year 15.

INFANTILE MORTALITY.

The deaths of Infants under 12 months was 82, this being 144·87 per 1000 births; compared with last year it is ·96 less.

From the table you will see the Infantile Death Rate per 1,000 births from 1897 to 1911.

Year.	Deaths under 1 year.				Infantile Rate.
1897	121	...	166
1898	113	...	157
1899	125	...	187
1900	118	...	179
1901	107	...	176
1902	116	...	188
1903	76	...	127
1904	96	...	163
1905	76	...	134
1906	104	...	175
1907	73	...	120
1908	88	...	144
1909	56	...	105
1910	77	...	145
1911	82	...	144

The number of deaths and rate in each ward was :—

Ward.	Deaths.	Rate per 1000.
Primet Bridge ...	24	240
Vivary Bridge ...	9	104·65
Central ...	13	132·65
Horsfield ...	11	86·61
Carry Bridge ...	23	188·54
Laneshaw Bridge ...	2	60·60

There were 10 deaths of children born illegitimate (5 males, 5 females). All these were under 1 year of age.

TABLE A.

The following table gives the Cause of Death, in weeks and months, of Infants under one year of age during 1911.

DISEASES.	Under 1 week			Total under 1 month			1-2 months			2-3 months			3-4 months			4-5 months			5-6 months			6-7 months			7-8 months			8-9 months			9-10 months			10-11 months			11-12 months			Total Deaths under 1 year		
Bronchitis	I	...	I	...	I	...	I	...	I	...	I	...	I	...	I	...	I	...	I	...	I	...	I	...	I	...	I	...	I	...	6										
Pneumonia	2											
Measles .....	...	...	...	...	...	...	...	I	...	...	...	...	...	...	...	...	...	...	...	...	...	2	I	3	I	...	...	...	...	8
Whooping Cough	I											
Diarrhoea .....	...	...	...	...	...	...	...	...	...	...	5	4	2	...	...	...	...	...	...	...	...	I	...	...	...	...	...	...	...	I2
Enteritis	I	...	...	...	I	...	I	2	I	...	...	...	...	...	...	...	...	...	...	2	...	...	...	...	...	...	...	...	7	
Gastritis .....	...	...	...	...	...	...	...	I	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2
Debility	9	3	3	...	15	1	I	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	I7
Premature Birth..	6	...	...	...	6	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	6
Convulsions .....	...	...	...	...	...	...	...	I	...	I	...	I	...	I	...	I	...	I	...	I	...	I	...	I	...	I	...	I	...	5					
Broncho Pneumonia.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2
Congenital Malformation.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	I
Other Causes	4	2	I	...	7	2	...	1	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I3													
Totals.....	20	5	5	...	30	6	10	9	5	5	2	1	6	2	5	1	82																									

NOTIFIED BIRTHS.

The number of births notified at the Health Office was 574, but of these 19 were still-born, which leaves 555 born living as against 530 last year.

The number in each ward was :—

Ward.	Births Notified.	Still-born.	Born Living.
Primet Bridge	101	3	98
Vivary Bridge...	97	3	94
Central	99	1	98
Horsfield	118	3	115
Carry Bridge ...	124	8	116
Laneshaw Bridge	35	1	34

The 574 births were notified by :—

Medical Men...	...	...	...	149
Certified Midwives ...	...	...	...	247
Parents, etc. ...	...	...	...	178

Of the 555 notified births born living, 68 deaths occurred, which is equal to a rate of 122·70 per 1,000 births notified, as against 88·92 last year.

During the year, under the Notification of Births Act, 1907, there have been 4 instances where births have not been notified by those persons responsible. Each case was brought before the notice of the Health Committee.

TABLE B.

Table giving the Cause of Death of the Notified Births in weeks and months.

CAUSES OF DEATH.	Under 1 week	1-2 weeks	2-3 weeks	3-4 weeks	Total under 1 month	1-2 months	2-3 months	3-4 months	4-5 months	5-6 months	6-7 months	7-8 months	8-9 months	9-10 months	10-11 months	11-12 months	Total Deaths under 1 year.
Debility	9	2	3	..	14	1	1	..	..	..	..	..	..	..	..	..	16
Premature Birth	6	..	..	..	6	..	..	..	..	..	..	..	..	..	..	..	6
Convulsions .....	..	..	..	..	..	1	..	1	..	1	..	..	..	..	..	..	3
Diarrhoea .....	..	..	..	..	..	5	4	2	..	..	1	..	..	..	..	..	12
Enteritis	1	..	..	..	1	1	2	1	..	..	..	..	..	..	..	..	5
Bronchitis .....	..	..	1	..	1	..	1	..	2	..	..	..	..	..	..	..	4
Gastritis .....	..	..	..	..	..	1	..	..	..	..	..	..	..	..	1	..	2
Broncho Pneumonia .....	..	..	..	..	..	..	..	..	1	1	..	..	..	..	..	..	2
Pneumonia .....	..	..	..	..	..	..	..	..	1	..	..	..	1	..	..	..	2
Whooping Cough .....	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	1
Other Causes	5	1	1	1	8	2	..	1	1	2	1	..	..	..	..	..	15
Totals.....	21	3	5	1	30	6	9	8	4	6	2	1	..	1	1	..	68

The number of deaths, of notified living births, and the rate in each ward was :—

Wards.		Living Notified Births.		Deaths of Notified Births.		Rate per 1,000.
Primet Bridge	...	98	...	19	...	193.87
Vivary Bridge	...	94	...	9	...	95.74
Central	...	98	...	11	...	112.24
Horsfield	...	115	...	8	...	69.56
Carry Bridge	...	116	...	19	...	163.79
Laneshaw Bridge	...	34	...	2	...	58.82

In reporting upon the work of the Health Nurse, it is gratifying to state that the system has again worked well throughout the year.

The system of forwarding per post to the parents of newly-born infants a pamphlet informing them that in case of sickness the voluntary services of the Health Nurse could be obtained on forwarding their name and addresses to the Health Office, Town Hall, is working quite satisfactorily.

I am pleased to say that advantage has been taken of this offer and in many cases the lives of many infants have been saved.

The following is an account of the work done by the Nurse during the year, with the number of visits paid, etc.:-

No. of newly-born infants attended, 562. No. of visits made 2,652.
 No. of infants attended who were receiving medical attention, 113.
 No. of visits made to these, 408.
 Mothers with still-born infants, 17. No. of visits made, 18.
 No. of mothers to whom special attention was given, 23.
 No. of visits made, 60.
 Total number of visits made during the year, 3,183.

INFECTIOUS DISEASES.

Under the Infectious Diseases Notification Act, 115 cases were notified, giving a rate of 4.47 per 1,000 of the population.

The diseases notified were: scarlet fever 71, diphtheria 13, membranous croup 5, erysipelas 13, puerperal fever 1, typhoid fever 10, ophthalmia neonatorum 2.

One case of Scarlet Fever was removed to the Burnley Sanatorium.

There were 70 deaths from the principal zymotic diseases, which give a rate of 2·72 per 1,000 of the population.

Of the diseases notified 9 deaths occurred, equal to a rate of 78·26 per 1,000 cases notified, or .35 per 1,000 of the population.

The deaths from the notified cases were : diphtheria 4, scarlet fever 1, typhoid fever 4.

The deaths from the zymotic diseases which are not included in the list of those notified are : Diarrhoea, enteritis, and gastritis 33, Measles 24, Whooping Cough 4.

DIARRHŒA.

During the months of August and September there was a widespread epidemic of Diarrhoea, all ages were affected but the mortality was confined to the young children and the aged. Leaflets were issued and the districts chiefly affected frequently visited and sanitary conditions rectified as far as possible.

There is no doubt that the house fly is a great cause of infection in diarrhoea and probably also in other infectious diseases. During the late spring and summer some of the stable middens were sprayed daily with disinfectant fluid, this in these special cases undoubtedly considerably reduced the number of flies bred. I find that the owners of these middens have great difficulty in getting them emptied often enough during the great fly breeding months of June, July and August, as the farmers are too busy with their hay to fetch it. Stable middens should be emptied more frequently and the walls and floor well sprayed with disinfectant solutions. The reason for the frequent removal of horse manure is that flies have the greatest preference for it in which to lay their eggs. These develop into perfect flies in from twelve to twenty days.

Scarlet Fever.—Cases notified, 71. Deaths, 1.

Last year cases notified, 107. Deaths, 4.

This disease was not confined to any particular district, but was distributed throughout the town. The cases were mostly of a mild type.

The number of children of school age attacked with the disease was 60, and the schools attended were :—

Lord Street ...	...	...	...	...	9
Park ...	...	...	...	...	10
Burnley Road	...	...	...	...	15
West Street ...	...	...	...	...	10
Exchange Street	...	...	...	...	3
Christ Church	...	...	...	...	3
Catholic	...	...	...	...	8
Convent	...	...	...	...	2
					—
					60
					—

The schools attended by children of school age living in an infected house, who were kept from school were :—

Lord Street ...	...	...	...	...	14
Park ...	...	...	...	...	7
Burnley Road	...	...	...	...	18
Exchange Street	...	...	...	...	2
West Street ...	...	...	...	...	13
Christ Church	...	...	...	...	1
Technical	...	...	...	...	1
Catholic	...	...	...	...	5
					—
					61
					—

Cases Nos. 20 & 22. Horsfield Ward. Notified April 3rd. and 6th.

Brother and sister, aged 6 and 9 years.

Cases Nos. 23 & 24. Laneshaw Bridge Ward. Notified April 7th & 10th.

Brother and sister, aged 2½ and 4½ years.

Cases No. 26 & 27. Central Ward. Notified April 12th. and 14th.

Two brothers aged 3 and 5 years.

Cases Nos. 37 & 38. Primet Bridge Ward. Notified May 22nd. and 23rd.

Two brothers aged 5 and 8 years.

Cases Nos. 42, 47, 58. Primet Bridge Ward. Notified May 29th, June 1st. and July 27th.

Father, son and daughter, aged 5, 8 and 30 years.

Cases Nos. 43 & 49. Primet Bridge Ward. Notified May 27 & June 5.

Two sisters aged 2 and 5 years.

Cases Nos. 44 & 50. Central Ward. Notified May 27th. and June 7th.
Brother and sister, aged 5 and 7 years.

Cases Nos. 51 & 52. Horsfield Ward. Notified June 12th.
Brother and sister, aged 9 and 12 years.

Cases Nos. 64 & 67. Horsfield Ward. Notified Sept. 2nd. and 14th.
Father and son, aged 8 and 33 years.

Cases Nos. 72, 73 & 74. Primet Bridge Ward. Notified Sept. 18th.
and 21st.

Two brothers and sister aged 2, 4 and 13 years.

Cases Nos. 87 & 90. Carry Bridge Ward. Notified Oct. 22nd. and 26th.
Two brothers aged 3 and 5 years.

Cases Nos. 93, 94 & 95. Horsfield Ward. Notified Nov. 4th.
Brother and sister and female lodger aged 4, 12 and 21 years.

Typhoid Fever.—Cases notified, 10 Deaths, 4.

During the year seven suspicious cases were tested with Widal's test: six gave positive reaction, and one doubtful. The three others notified did not undergo this test.

From the following table you will see particulars of each case:—

No.	Sex	Age	Ward.	Date Notified	How long suffering from disease.	Remarks.	If tested	Result.
10	M	16	Laneshaw bridge	Jan. 21	7 weeks	Single house	No	—
59	M	21	Horsfield	Aug. 7	8 weeks	Through house	Yes	Positive
65	F	32	Carry B.	Sept. 5	7 weeks	do.	Yes	do.
69	M	24	do.	,, 19	16 weeks	do.	Yes	Doubtful
78	M	23	do.	,, 29	9 weeks	Back to back house	Yes	Positive
82	M	35	Vivary B.	Oct. 16	Died Oct. 26	Through house	No	—
92	M	26	Carry B.	Nov. 3	Died Nov. 8	do.	No	—
106	M	29	Horsfield	Dec. 4	Died Dec. 10	do.	No	—
107	M	35	do.	,, 11	7 weeks	do.	Yes	Positive
108	F	65	Carry B.	,, 11	Died Dec. 11	do.	Yes	do.

All discharges from patients are taken away daily and burnt, and bedding if soiled also burnt and new provided.

During the year seven beds and fifteen pillows were so destroyed.

Diphtheria.—Cases notified, 13. Deaths, 4.

No.	Sex	Age	Ward.	Date Notified	How long suffering from disease.	Remarks.	If tested	Result.
8	M	4	Central	Jan. 18	7 weeks	Through house. Defective drainage.	No	—
14	M	4	Primet B.	Feb. 19	Died Feb. 19	Back to back house	No	—
41	M	9	Central	May 24	5 weeks	Through house.	No	—
55	F	6	do.	July 13	6 weeks	do.	No	—
60	F	5	Carry B.	,, 15	Died July 16	Died at Cottage Hospital.	Yes	Positive
66	F	5	do.	Sep. 11	6 weeks	Single house. Defective W.C.	No	—
85	M	4	Vivary B.	Oct. 20	6 weeks	Through house. Defective drainage.	No	—
86	F	9	Carry B.	,, 20	5 weeks	do.	No	—
99	F	7	Vivary B.	Nov. 16	Died Nov. 18	do.	No	—
105	M	17	do.	,, 28	6 weeks	do.	Yes	Positive
109	F	11	Carry B.	Dec. 12	2 weeks	Through house.	Yes	Positive
112	M	5	Vivary B.	,, 16	Died Dec. 21	Through house. Defective drainage.	No	—
115	M	6 ^{mths}	Central	,, 30	6 weeks	do.	No	—

The method of procedure in each case is:—On receipt of the notification, disinfectants and printed instructions are immediately sent to the house. The house is visited the same day and enquiries made, and the premises examined for any sanitary defects, and if any are found notice is immediately served for abatement. Also all drains and closets are flushed. When the case recovers (or otherwise), the premises are disinfected, and the bedding examined, and if marked, is destroyed, and new goods supplied or compensation paid.

Membranous Croup.—Cases notified, 5. Deaths, 0.

Ophthalmia Neonatorum.—Cases notified, 2. Deaths, 0.

Erysipelas.—Cases notified, 13. Deaths, 0.

Puerperal Fever.—Cases notified, 1. Deaths, 0.

Case No. 114. Vivary Bridge Ward.

This woman recovered from her illness at home being ill six weeks.

Measles.—There was an epidemic of measles continued from last year, affecting many of the scholars in Park, Lord Street, West Street and Primet Schools.

There were 24 deaths registered, due to this disease, the ages being:

1 death under 6 months.
 2 deaths between 6 months and 9 months.
 5 ,, ,, 9 ,, ,, 12 ,,
 15 ,, ,, 12 ,, ,, 2 years.
 1 death 6 years of age.

Twenty-two of these deaths occurred during the month of January, the other two in February. Handbills were freely distributed in the affected district, giving instructions how to prevent the spread of the disease.

PUBLIC HEALTH (TUBERCULOSIS) REGULATIONS, 1908.

During the year the Medical Officers of the Burnley Poor Law Institution have notified 2 cases of pulmonary tuberculosis (both males).

The residence or temporary residence of these were as follows:—

Stonebridge Chambers	...	...	...	I
Stonebridge Terrace	...	...	...	I
Total	...	...	...	2

The District Medical Officer has notified 2 cases (males 2), the residences or temporary residences of these two were as follows:—

Watson's Lodging House	...	...	...	I
St. John Street	...	...	...	I
Total	...	...	...	2
				—

The Superintendent of the Burnley Poor Law Institution has notified that 3 persons (males) have left that institution to take up their residence in Colne at the following places:—

Watson's Lodging House	...	...	...	I
Stonebridge Chambers	...	...	...	I
Gregson's Lodging House	...	...	...	I
Total	...	...	...	3
				—

PUBLIC HEALTH (TUBERCULOSIS) REGULATIONS, 1911.

There was no notification of Pulmonary Tuberculosis from any institution in the District.

TABLE C.

Table giving the ages of persons affected with infectious diseases during 1911:—

Diseases.	At all ages.	Under 1 year	1 to 5 years	5 to 15 years	15 to 25 years	25 to 65 years	65 and upwards
Scarlet Fever.....	71	—	19	42	5	5	—
Typhoid Fever	10	—	—	1	2	6	1
Puerperal Fever.....	1	—	—	—	—	1	—
Erysipelas	13	—	2	2	1	8	—
Diphtheria	13	—	4	7	2	—	—
Membranous Croup	5	1	4	—	—	—	—
Ophthalmia Neonatorum	2	2	—	—	—	—	—
Totals.....	115	3	29	52	10	20	1

TABLE D.

Table showing the number of houses infected, with the number of rooms disinfected in each disease.

Diseases.		Number of Cases Notified.		Number of Houses Infected.		Houses remaining Infected		January 1st, 1910.		No. of Houses in which disinfection is done by Health Dept.		No. of Houses in which disinfection is done by Occupiers.		Total number of Rooms Disinfected.		No. of Houses in which no disinfection was done.		Houses remaining Infected on December 31st, 1911.
Scarlet Fever	71	52		7						50		6		62				
Typhoid Fever	10	10				10				10				10		2		
Puerperal Fever	1	1																
Erysipelas	13	13																
Diphtheria	13	12																
Membranous Croup	5	5								5				5				
Ophthalmia Neonatorum	2	2																
Totals	115	95		7		75		7		88		17		17		3		

TABLE E.

The following table is a Summary of the Infectious Diseases, and the Deaths from these diseases (notified) in each ward :—

The following tables are compiled as last year in reference to the deaths occurring in the old parts of the town.

From the tables you will see that the numbers compare favourably with the rest of the town.

TABLE F.

HORSFIELD WARD.

Street.	Disease.	Age.	Total.
Union Street	Acute Laryngitis	16 months	I
"	Appendicitis	16 years	I
"	Debility from Birth	5 days	I
"	Enteritis	8 months	I
King Street	Bronchitis	2 months	I
"	Tubercular Peritonitis	20 months	I
"	Measles	13 months	I
Buck Street	Broncho Pneumonia	5 mons. & 2 yrs.	2
"	Natural Causes	51 years	I
Lister Street	Measles	2 months	I
Dent Square	Pyæmia	16 days	I
"	Measles	15 months	I

PRIMET BRIDGE WARD.

Street.	Disease.	Age.	Total.
Primet Street	Gastric Enteritis	4 months	I
Middle Street	Natural Causes	5 hours	I
"	Measles	11 months	I
"	Carcinoma Uteri	54 years	I
Cross Street West	Debility	20 days	I
" "	Measles	8 months	I
" "	Membranous Croup	19 months	I
Greenfield Road	Malformation of Heart	5 months	I
" "	Heart Disease	69 yrs. & 65 yrs.	2
" "	Gastric Enteritis	3 months	I
" "	Acute Enteritis	2 years	I
" "	Bronchitis	74 yrs. & 8 mons	2
" "	Phthisis	28 years	I
" "	Cerebral Hæmorrhage	55 years	I
" "	Pneumonia	50 years	I
" "	Diphtheria	4 years	I
John Street	Inflammation of Intestines	3 months	I
"	Tubercular Meningitis		I
Bolton Street	Bronchitis	5 months	I
"	Convulsions	1 and 2 months	2
Queen's Court	Heart Disease	35 years	I
Dundas Street	Measles	22 months	I

CENTRAL WARD.

Street.	Disease.	Age.	Total.
Croft Terrace	Pre-maturity ...	1 hour	I
"	Cancer of Scrotum ...	46 years	I
Lenches	Cerebral Haemorrhage	71 years	I
"	Senile Decay ...	74 years	I
"	Bronchitis ...	68 yrs & 64 yrs.	2
Lower Green	Endocarditis ...	53 years	I
Lenches Fold	Debility ...	2 weeks	I

VIVARY BRIDGE WARD.

Street.	Disease.	Age.	Total.
Church Meadows	Debility ...	4 hours	I
"	Senile Decay ...	76 years	I
Rook Street	Gastro Enteritis...	2 months	I
"	Broncho Pneumonia	56 years	I
"	Pneumonia ...	18 years	I
"	Cerebral Haemorrhage	58 years	I
"	Measles ...	15 months	I
Turney Crook	Bronchitis ...	5 months	I
"	Pneumonia ...	36 years	I
Windy Bank	Measles ...	19 months	I
"	Broncho Pneumonia	46 years	I

CARRY BRIDGE WARD.

Street.	Disease.	Age.	Total.
Holmes Place	Tabes Mesenterica	4 years	I
St. John Street	Bronchitis ..	63 years	I
" "	Epidemic Diarrhoea	2 months	I
Shackleton Street	Enteritis ..	3 months	I
" "	Epidemic Diarrhoea	2 months	I
" "	Debility ..	23 hours	I
Clayton Street	Broncho Pneumonia	6 months	I
" "	Epidemic Diarrhoea	12 months	I
" "	Typhoid Fever ..	65 years	I
Nineveh Street	Epidemic Diarrhoea	3 mons. & 3 mons	2
" "	Zymotic Enteritis	2 months	I
" "	Placenta Praevia Postpartum Haemorrhage ..	31 years	I
Parliament Street	Premature Birth	2 days	I
Barker's Fold	Measles ..	23 months	I
Carry Bridge	Fibroid of Uterus	26 years	I
"	Epidemic Diarrhoea	2 months	I
"	Pneumonia ..	14 months	I
"	Dentition ..	11 months	I
Bank Terrace South	Endocarditis ..	66 years	I
Sagar Fold	Measles ..	14 months	I
Primrose Hill	Debility ..	13 days	I

Table showing cause and number of deaths in selected parts of the town.

TABLE G.

Table shewing the number of notifications for Infectious Diseases in selected parts of the town :—

Street.	Disease.	Total.
Church Meadows	1 Scarlet Fever	1
Lister Street	2 Scarlet Fever (in one house), and 1 Erysipelas	3
Clayton Street	4 Scarlet Fever (2 in one house), and 1 Enteric Fever	5
St. John Street	1 Enteric Fever, and 1 Diphtheria ..	2
Shackleton Street	1 Scarlet Fever	1
Parliament Street	1 Enteric Fever, and 1 Erysipelas ..	2
Mill Street	2 Scarlet Fever (in one house) ..	2
Chapel Fold	2 Scarlet Fever (in one house) ..	2
Greenfield Road	1 Diphtheria, and 2 Erysipelas ..	3

HOUSING OF THE WORKING CLASSES ACTS, 1890 to 1909.

Under the above Acts, 116 dwelling-houses have been inspected, and 21 re-inspected of which four were found to be unfit for human habitation, and representations were made to the Authority with a view to making closing orders for the same. Closing orders were duly made.

Seventeen dwelling-houses were inspected in which there were slight defects and notices served for the defects to be remedied.

No houses were put into a fit state of habitation and no houses were demolished.

The general character of defects were mainly found to be defective troughing, fall pipes and slopstone gullies.

FOOD AND DRUGS ACTS.

Superintendent Pincock reports that during the year the following samples of food have been purchased under the Food and Drugs Acts

in the Borough of Colne, and submitted to the Public County Analyst to be analysed.

He reports that all were genuine, or passable :—

Lard ...	...	...	...	...	...	6
Butter	...	...	...	...	...	6
New Milk	...	...	...	...	...	28
Whisky	...	...	...	...	...	9
Coffee	...	...	...	...	...	3
White Pepper	...	...	...	...	...	2
Tea	...	...	...	...	...	1
Ground Ginger	...	...	...	...	...	1
Olive Oil	...	...	...	...	...	1
Margarine	...	...	...	...	...	2
Total	...	...	...	...	...	59

RIVERS POLLUTION ACTS.

The provisions of the Rivers Pollution Acts are administered by the Ribble Joint Committee.

CANAL BOATS ACTS.

The Council are exempted from the administration of the Canal Boats Act, owing to the short length of canal within the Borough.

The report of Mr. H. C. SUGDEN, Sanitary Inspector, is as follows :—

The number of notices served was—

Intimation notices	...	...	376
Statutory notices	...	...	37

These notices were served for the abatement of the following nuisances :—

Defective and insanitary waste water closets and clean water closets	...	...	...	...	...	106
Defective dishbricks	...	...	...	...	...	373

Defective fall pipes ...	...	...	...	...	...	54
Defective slopstone pipes ...	...	...	...	...	...	223
Defective eaves ...	...	...	...	...	...	22
Defective ashpits ...	...	...	...	...	...	98
Defective ashbins ...	...	...	...	...	...	2
Defective roof ...	...	...	...	...	...	21
Defective drains ...	...	...	...	...	...	20
Defective privy closets ...	...	...	...	...	...	42
Defective backyards ...	...	...	...	...	...	20
Defective coal places ...	...	...	...	...	...	21
Insanitary houses ...	...	...	...	...	...	4
Insanitary areas ...	...	...	...	...	...	12
Drains or closets blocked ...	...	...	...	...	...	13
Emission of black smoke ...	...	...	...	...	...	17
Accumulation of rubbish ...	...	...	...	...	...	1
Storage of fish tubs ...	...	...	...	...	...	3
Common Lodging-houses not limewashed ...	...	...	...	...	...	1
Houses-let-in-lodgings not limewashed ...	...	...	...	...	...	8
Insufficient privy accommodation ...	...	...	...	...	...	2
Overcrowded house ...	...	...	...	...	...	2
Slopstone drains not properly connected to sewer ...	...	...	...	...	...	32
Keeping animals so as to be a nuisance ...	...	...	...	...	...	3
Carting fish in open tubs to destructor ...	...	...	...	...	...	11
Miscellaneous ...	...	...	...	...	...	10
						1121

The staff of the department removed obstructions from, or repaired 674 waste water closets, 29 clean water closets, 79 drains and 73 tippers.

The number of sanitary conveniences in the Borough is :—

		1910.		1911.
Ashpits ...	...	4349	...	4356
Ashbins ...	...	324	...	474
Privy Middens ...	...	2	...	2
Waste Water Closets ...	3957	...	4100	
Clean Water Closets ...	1120	...	1163	
Pail Closets ...	470	...	471	
Tank Closets ...	245	...	238	

During the year the work of converting pail and tank closets under the powers of the Provisional Order of 1903 has been commenced, and the following convenience have been altered from pail and tank closets to waste water and clean water closets :—

28 Tank Closets to Water Closets.	
11 „ „ Waste Water Closets.	
1 Pail Closet to „ „	

SMOKE NUISANCE.—The number of observations taken was 71, each of the duration of one hour, and excessive quantities of black smoke were emitted in 48 instances. In April the Health Committee resolved that there should be fixed a time-limit for the emission of black smoke from factory and workshop chimneys, and in cases where the limit was exceeded proceedings be instituted—

Where 1 boiler is in use ...	Limit of 5 minutes in the hour.
„ 2 boilers are in use... „	6 „ „
„ 3 „ „ „	7 „ „
„ 4 or more „ „	10 „ „

A copy of the above resolution was forwarded to all owners and occupiers of factories and workshops within the Borough. Since then 5 firms have been prosecuted for exceeding the time limit.

SLAUGHTER HOUSES.—The number remains the same as last year : registered 7, licensed 4, public abattoirs 7. They are all regularly inspected and the only contravention met with was 1 defective refuse pail. The slaughter house purchased last year has been demolished.

The agreement for the removal of garbage by the Corporation has worked so satisfactorily that the butchers have renewed the lease.

There are now three permanent tenants of the public abattoirs and seven others kill there, but pay per head for animals slaughtered.

The quantity of unsound meat submitted for inspection and condemned was the carcases of 2 beasts, 2 sheep and 1 pig, and the internal organs of four beasts,

No seizures were made of unsound meat or food exposed for sale.

OFFENSIVE TRADES.—The number of these trades carried on in the town is the same as last year, viz :—Two fellmongers, two tripe dressers, one tanner, one gut-cleaning. No contraventions were met with.

COMMON LODGING HOUSES.—The number of these houses registered is still nine. They are regularly inspected, and only one contravention of the byelaws was met with, viz :—want of limewashing.

HOUSES-LET-IN-LODGINGS.—These houses are in far better condition than heretofore ; they are regularly inspected, and the following contraventions of the Byelaws were met with, viz :—Want of limewashing, 8.

The number of houses registered remains the same as last year, viz :—54.

BAKEHOUSES.—The number of these premises in the Borough is 22 ; no contraventions were found.

FACTORIES.—The number in the town is 104, and during inspection the following nuisance was discovered :—1 sanitary accommodation insufficient.

WORKSHOPS.—The number in the Borough is 137. During the inspections the following nuisances were found :—2 insufficient ventilation.

PETROLEUM ACTS.—During the year 30 licenses were granted for the safe keeping of 14,970 gallons.

DAIRIES, COWSHEDS AND MILKSHOPS ORDERS.—The number of farms in the district is 96, milksellers 5, dairy shop 1.

The Sub-Committee appointed to inspect the farms will continue their inspection during the spring of 1912, before the cattle are turned out for grazing.

The following nuisances were found during the inspection :—Defective drainage and eaves 2, defective manure tank 1, defective privy 1, insufficient lighting 2, no drains or cesspool 1, defective slopstone pipe 1.

CONTAGIOUS DISEASES OF ANIMALS ACT AND ORDERS.—In accordance with the Sheep Dipping Order of 1907, 621 sheep and 466 lambs were dipped during the first period, and 601 sheep and 124 lambs during the second period.

During the year two horses were found to be suffering from parasitic mange, and duly recovered. No other outbreak of contagious diseases occurred within the Borough.

In accordance with the provisions of the Dogs Act, 1906, 14 stray dogs were received at the Destructor Works; 6 were sold, 3 destroyed, and 5 were returned to owners.

REFUSE DESTRUCTOR.—The quantity of refuse destroyed during the year was :—

		1910		1911
Loads of Ashpit Refuse	...	4119	...	4264
Loads of Garbage	...	380	...	376
		<hr/>		<hr/>
		4499	...	4640
		<hr/>		<hr/>

The approximate weight of ashpit refuse per load was 21 cwts., the same as last year.

		1910			1911		
		Tons	Cwts	Qrs	Tons	Cwts	Qrs
Ashpit Refuse	...	4504	11	0	4294	18	2
Garbage	...	361	12	0	371	4	0
		<hr/>			<hr/>		
		4866	3	0	4666	2	2
		<hr/>			<hr/>		

During the year 25 tons 4 cwts. 1 qr. of waste tins, 7 tons 15 cwts. 1 qr. waste paper, 2 tons 11 cwts. 0 qrs. of scrap iron, and a quantity of glass, earthenware, etc., was disposed of.

The clinkers were removed to the Corporation Sewage Works.

I am again pleased to say that since the construction of the Dust Catcher we have not had any complaints about the fine dust which was occasionally emitted from the Destructor Chimney.

It will be necessary shortly for the Destructor cells to be reconstructed ; this work will be commenced early in the new year.

NIGHT-SOIL REMOVAL.—The loads of excreta removed from privies and cesspools during the year were 1186, as against 1112 last year.

SMALLPOX HOSPITAL.—This building is kept in readiness for the reception of patients, and has been further extended by the erection of a discharging room, bathroom and scullery.

JERUSALEM FARM.—The farm land is still let for grazing, and the land at the Old Workhouse, Laneshaw Bridge, for the keeping of poultry.

PUBLIC URINALS.—The number of public urinals in the Borough is now 11.

Mr. T. H. HARTLEY, the Borough Surveyor, has submitted the following report :—

PLANS AND BUILDINGS.

During the year 74 plans of various buildings have been submitted to the Buildings and Plans Committee, of which 64 were approved and 10 disapproved. The plans represent the following buildings :—

- 204 Dwelling-houses, this being 70 more than last year.
- 1 Mill Extension.
- 1 Public Elementary Day School.
- 1 Anglican Church.
- 2 Estate Plans.
- 1 Farm Building.
- 2 Wooden Buildings.
- 1 Stable.
- 39 Alterations and Additions.

156 dwelling-houses have been completed during the year for which certificates of habitation have been granted, this being 24 more than last year. 211 notices have been given in by the various builders for inspection of buildings and alterations during the year, for which 948 inspections have been made.

MAIN SEWERS.

There have been laid during the year various lengths of sewers, the total length being 680 lineal yards 9in. diameter sewers with 15 manholes and 11 lampholes, making a total length of 30·38 miles, with 664 manholes and 455 lampholes.

SURFACE WATER DRAINS.

713 lineal yards of 9in. diameter surface water drains have been laid in vatisous parts of the Borough with 8 manholes and 7 lampholes, making a total length of surface water drains of 9·34 miles with 162 manholes and 134 lampheles.

PRIVATE STREET IMPROVEMENT WORKS.

21 private streets have been paved, etc., during the year, at a cost of £5296 18s. od.

SEWAGE WORKS.

A commencement has been made with the scheme for the exten-
sion of the sludge pressing plant at the Sewage Works, which has been
found necessary owing to the growth of the town. This scheme when
completed is expected to cost about £2145.

Good progress has been made with the filling of the last pair of contact beds; when these are finished the total area of these beds will be about three acres.

A commencement has been made with the laying of the sewer ex-
tensions to Keighley Road from the existing sewer at the east side of
Ball Grove. The sewer will make provision for the new property now
being erected in that district. It is estimated to cost £420.

TECHNICAL SCHOOL EXTENSIONS.

During the year these extensions have been completed at a cost of about £4,000, and were opened by Sir Swire Smith on the 9th of April last. Alterations have been made to the weaving shed and wood-working shop in the existing building and have much improved the premises at a cost of about £250.

HIGHWAY IMPROVEMENTS.

The widening of Cottontree Lane at a cost of £390 has been completed. Other widenings in Emmott Lane, Barrowford Road and the North Valley Road are about to be commenced, the sanction of the Local Government Board having been received, at an estimated cost of about £819.

It is proposed to make better means of communication between the foot of New Market Street and Stanley Street and the North Valley Road, complaints having been made as to the difficulty of access to these two streets. Arrangements have been made with the land and property owners whereby New Market Street will be formed, bouldered and metalled into North Valley Road. Stanley Street will be continued to North Valley Road, the stream culverted and the street properly paved and completed. Argyle Street will be continued from the foot of New Market Street into Stanley Street. The whole of this work is estimated to cost £940, and a commencement has been made.

SMALL POX HOSPITAL.

The Health Committee have arranged for better provision for bathing and discharging the patients, and the work has now been almost completed. The cost is estimated to be about £100.

For the purpose of clearing away insanitary property the slaughter house and adjoining buildings in Newhouse Street have been purchased at a cost of £290. The buildings have been taken down and the space left open for the present.

The Health Committee have proceeded with the conversion to the water carriage system of several tank closets which have been a great

nuisance and injurious to health. The following have been taken in hand and completed during the year :—

No. 2 Walton Street	...	...	1
Nos. 42 to 55 Greenfield Road...			12
No. 113 Burnley Road	...	...	2
Nos. 8 to 12, Little Queen St.	...		3
Nos. 3 to 13 Primet Street	...		6
Walton Street Shed	...	...	2
Garden Vale Mill	...	...	11
Great Holme Mill	...	...	4
Total...			41

Negretti & Zambra's Self-Recording Rain Gauge at the Cemetery Grounds.

SUMMARY OF READINGS, 1901 TO 1911.

			Depth in inches.		No. of days on which rain fell.
Total Rainfall for the year	1901	...	26.29	...	161
„ „ „	1902	...	27.96	...	213
„ „ „	1903	...	48.47	...	240
„ „ „	1904	...	33.99	...	219
„ „ „	1905	...	29.89	...	197
„ „ „	1906	...	40.25	...	211
„ „ „	1907	...	40.13	...	208
„ „ „	1908	...	43.95	...	212
„ „ „	1909	...	44.98	...	196
„ „ „	1910	...	49.23	...	217
„ „ „	1911	...	47.47	...	199
					Inches.
Average Annual Rainfall 1901-1911...	...	...	...	...	39.33
Heaviest rainfall for 1 month, 1901-1911, Oct. 1903	...	...	...	...	8.53
„ „ „ 1 day of 24 h'rs 1901-1911, 24th June, 1911...					2.64
„ „ „ 1 hour 1901-1911, May 13th, 1911 ...					1.30
„ „ „ a short period (5 mins.) 1901-11, June 17th, 1911					.16

SUMMARY OF RAINFALL FOR 1911.

Month.	Depth in Inches.	No. of days on which rain fell.	
			Monthly average 3.92 inches.
January ...	2.19	20	
February ...	7.70	16	Heaviest rainfall for one month
March ...	3.31	16	7.70 inches, in Feby., 1911.
April ...	3.04	16	
May ...	3.14	14	Heaviest rainfall for one day of
June ...	5.69	13	24 hours, 2.64 inches on June
July ...	.25	7	24th, 1911.
August ...	2.68	14	Heaviest rainfall for one hour
September ...	4.50	17	1.30 inches, May 13th, 1911.
October ...	3.59	20	
November ...	3.79	19	
December ...	7.59	27	On June 17th, 1911, 0.16 inches fell in 5 minutes.
Total ...	47.47	199	

The height of the rain gauge above sea level is 618.74 feet.

" " " " ground is 3 feet.

WATER SUPPLY.

Mr. J. F. BEDFORD, the Water Engineer and Manager, reports as follows :—

The past year has been a trying one on account of the hot and dry weather which was experienced. The Committee were able to do without curtailing the supply, but found it necessary to issue notices in June and again in September, prohibiting the use of water for swilling and garden purposes, and requesting consumers to be careful generally with the use of water.

Owing to the drought, a large number of houses in the Lench district of the Borough which receive their water from a private Company, the Colne Water Estate Co., were for a time entirely without a supply, and 34 of them were coupled up with the town's supply on the request of the owners.

The sources of supply consisted mainly of three Springs and an upland gathering ground on the moors. These were all found satisfactory

excepting one source, the Barnside Springs. After an examination and analysis, the water therefrom was not considered satisfactory, and the Committee decided to discontinue the supply. The water from the gathering ground is all filtered before being sent to the town.

The water has been analysed both chemically and bacteriologically and found to be soft, free from organic impurity, and of good quality for domestic use. The analysis also shows the presence of carbonates to prevent the water acting on lead. Furthermore, the complaints as to the objectionable taste and smell of the water which were formerly numerous, particularly in times of hot weather, have been entirely obviated, notwithstanding the exceptionally hot summer through which we have passed.

The rainfall recorded at Laneshaw Reservoir for the last six years was as follows :—

1906	...	...	...	38.11	inches.
1907	...	...	...	36.55	"
1908	...	...	...	36.63	"
1909	...	...	...	34.57	"
1910	...	...	...	39.85	"
1911	...	...	...	37.78	"
<hr/>			Average	37.25	"
<hr/>					

The average yield of water from the Springs was 268,574 gallons and from the Reservoir 255,551 gallons, making a total of 524,125 gallons per day, a quantity for the requirements of the present population equal to 20 gallons per head per day.

I am, Gentlemen,

Your Obedient Servant,

W. DOYLE, M.B.,C.M.,

March 1st, 1912.

Medical Officer of Health.

TABLE I.

Vital Statistics of Whole District during 1911 and previous Years.

Year.	Births.			Total Deaths Registered in the District.			Transferable Deaths.			Nett Deaths belonging to the District.		
	Population estimated to Middle of each Year.		Uncorrected Number.	Nett.		Of Non-residents registered in the District.	Under 1 Year.		At all Ages.			
	Number	Rate.	Number	Rate.	Number	Rate per 1,000 Nett Births.	Number	Rate.	Number	Rate.		
1906	24,500	593	24·20	369	15·06	8	2	104	175	375	14·81	
1907	26,150	604	23·09	339	12·96	3	48	73	120	384	14·34	
1908	26,190	611	23·32	320	12·21	4	55	88	142	371	14·28	
1909	26,725	531	19·86	299	11·18	4	48	56	105	343	12·94	
1910	27,493	528	19·20	303	11·02	...	34	77	145	337	12·25	
1911	25,693	566	22·02	334	12·99	4	67	86	151	397	15·45	

TABLE II.

Cases of Infectious Diseases notified during the Year 1911.

(Table III). Causes of, and Ages at Death during the Year 1911.

		Nett Deaths at the subjoined ages of Residents whether occurring within or without the District.											
		CAUSES OF DEATH.											
		All Ages.											
All Causes	{ Certified	...:	...:	...:	...:	...:	...:	...:	...:	...:	...:	...:	...:
	{ Uncertified	...:	...:	...:	...:	...:	...:	...:	...:	...:	...:	...:	...:
Enteric Fever	4	...	...	...	1	...
Small Pox	24	8	15	...	...	...
Measles	1	...	1	...	...	...
Scarlet Fever	4	1	1	...	...	...
Whooping Cough	6	2	3	...	...	...
Diphtheria and Croup	1	1	1	...	...	...
Influenza	2	...	2	...	1	...
Phthisis (Pulmonary Tuberculosis)	16	...	...	...	9	5
Tuberculosis Meningitis	2	...	1	...	3	...
Other Tuberculous Diseases	1	3	2	1	12	6
Rheumatic Fever	3	...	2	1	7	14
Cancer (Malignant Disease)	20	...	...	...	4	1
Bronchitis	28	6	1	...	5	3
Broncho-Pneumonia	11	2	1	...	1	2
Pneumonia (all other forms)	15	2	1	...	...	...
Other Diseases of Respiratory Organs	1	...	...	...	2	...
Diarrhoea and Enteritis	31	21	4	...	1	2
Appendicitis and Typhlitis	4	...	2	1	1	2
Alcoholism	1	...	...	...	...	...
Cirrhosis of Liver	4	...	...	2	2	...
Nephritis and Bright's Disease	9	1	...	5	2	1
Puerperal Fever	3	1	...	2	...	1
Other accidents and diseases of Pregnancy & Parturition...	4	1	...	1	1	...
Congenital Debility and Malformation, including
Premature Birth	29	28	...	1	2	2
Violent Deaths, excluding Suicide	6	...	...	1	1	1
Suicides	2	...	...	6	21	65
Other Defined Diseases	158	16	4	5	39	17
Totals	397	86	30	18	13	95

Total deaths whether
of "Residents" or
"Non-Residents" in the
District.
Institutions in the

Nett Deaths from stated causes at various ages under 1 Year of Age.

CAUSES OF DEATH.		Total Deaths under 1 year.								
All Causes	Certified { Uncertified	18	5	... 2	28	16	19	9	82	4
Small-pox
Chicken-pox	8
Measles	2	5	...
Scarlet Fever
Diphtheria and Croup
Whooping Cough	1
Diarrhea	5	6	13	8
Enteritis	1	3	2	...	...
Tuberculous Meningitis
Abdominal Tuberculosis	6	...	...	...	...
Other Tuberculous Diseases
Congenital Malformations
Premature Birth	6	...	...	...	6
Atrophy, Debility and Marasmus	16	2	1	...	20
Atelectasis	1	...	...	1
Injury at Birth	1	...	...	1	...	...	2
Erysipelas
Syphilis
Rickets
Meningitis (not tuberculous)
Convulsions	1	2	1	5
Gastritis	1	...	...	2
Laryngitis	1	...	...	...
Bronchitis	1	...	3	1	6
Pneumonia (all forms)	2	1	4
Suffocation, overlying	3	1	1	5	1	...	...
Other Causes	2	1	9
Totals	20	5	5	30	17	20	98

